

Bureau of Resource Protection – Water Supply – Water Quality Assurance/Water Treatment

BRP WS 34 Chemical Addition Retrofit for systems that serve less than or equal to 3,300 people Instructions and Supporting Materials

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Introduction

DEP *Permit Applications*, as well as *Instructions & Support Materials*, are available for download from the DEP Web site at mass.gov/dep in two file formats: Microsoft Word™ and Adobe Acrobat PDF™. Either format allows documents to be printed.

Instructions & Support Materials files in Microsoft Word™ format contain a series of documents that provide guidance on how to prepare a permit application. Although we recommend that you print out the entire package, you may choose to print specific documents by selecting the appropriate page numbers for printing.

Permit Applications in Microsoft Word[™] format must be downloaded separately. Users with Microsoft Word[™] 97 or later may complete these forms electronically.

Permitting packages in Adobe Acrobat PDF™ format combine *Permit Applications* and *Instructions & Support Materials* in a single document. Adobe Acrobat PDF™ files may only be viewed and printed without alteration. *Permit Applications* in this format may not be completed electronically.



Bureau of Resource Protection – Water Supply – Water Quality Assurance/Water Treatment

BRP WS 34 Chemical Addition Retrofit for systems that serve less than or equal to 3,300 people Permit Fact Sheet

1. What is the purpose of this permit?

This permit serves to protect the public's health and welfare by insuring that minimum drinking water requirements are met in the chemical addition retrofit of water systems. It consists of an approval for chemical addition retrofit of water systems, that serve 3,300 people or less. Legislative authority is stated in stated in MGL Chapter 111, section 160A. Regulatory authority is stated in 310 CMR 22.04 of the Drinking Water Regulations.

2. Who must apply?

Public water suppliers or their representatives who want approval for the chemical addition retrofit of their water system.

3. What other requirements should be considered when applying for this permit?

If the water supplier or their representatives apply for this permit it may also be necessary for them to apply for other DEP water treatment permits, e.g. BRP WS 23 or BRP WS 24.

Note: These additional requirements are intended to serve as a guide to the applicant. It does not necessarily include all additional requirements.

4. What is the application fee?

The application fee is \$285.

5. What is the Primary Permit Location? What is the Reserve Copy Location?

Primary Permit Location:

Department of Environmental Protection

*Regional Office

Reserve Copy Location:

None Required.

Water Supply

*See "Addresses and Phone Numbers" page included in this package.

6. What are the timelines?

As of November 30, 1994 the timelines are:

AC T1 T2* 30 60 60

*(A second technical review will only be conducted if necessary).

There is no public comment period for this permit.

7. What is the annual compliance fee?

There is no annual compliance assurance fee for this permit.



Bureau of Resource Protection – Water Supply – Water Quality Assurance/Water Treatment

BRP WS 34 Chemical Addition Retrofit for systems that serve less than or equal to 3,300 people Permit Fact Sheet

8. How long is this permit in effect?

This permit is in effect as long as the applicant remains in compliance with appropriate laws and regulations and the Department determines that the product or operations continue to protect the public health and welfare.

9. How can I avoid the most common mistakes made in applying for this permit?

- a. Fill in all information on the DEP Application Form BRP WS Application.
- b. Attach all information requested on the Application Completeness Checklist.
- c. Send application and one copy of the DEP Transmittal Form to DEP Regional Office, Water Supply.
- d. Submit fee and one copy of the DEP Transmittal Form to: Department of Environmental Protection, P. O. Box 4062, Boston, MA 02211.

10. What are the regulations that apply to this permit? Where can I get copies?

These regulations include, but are not limited to:

- a. Drinking Water Regulations, 310 CMR 22.00
- b. Timely Action Schedule and Fee Provisions, 310 CMR 4.00.

These may be purchased at:

State Bookstore (in State House) Room 116 Boston, MA 02133 617-727-2834 State Bookstore 436 Dwight Street, Room 102 Springfield, MA 01103-1317 413-784-1376



Bureau of Resource Protection – Water Supply – Water Quality Assurance/Water Treatment

BRP WS 34 Chemical Addition Retrofit for systems that serve less than or equal to 3,300 people Application Completeness Checklist

	The Transmittal Form is completed.
	Form BRP WS Application is completed.
The	e following should also be included:
	A cover letter explaining the request.
	Documentation to support the request.
	A DEP application for chemical addition retrofit.
	A Massachusetts Professional Engineer's Certification and dated stamp.
То	submit the application package:
	Checklist items have been completed.
	Send one copy of the application along with one page from the DEP Transmittal Form to:
	Department of Environmental Protection* Regional Office Water Supply *See "DEP Addresses and Phone Numbers" for the addresses of DEP Regional Offices.
	Send fee of \$285 in the form of check or money order made payable to <i>Commonwealth of Massachusetts</i> , along with one copy of the DEP Transmittal Form to:
	Department of Environmental Protection P.O. Box 4062 Boston, MA 02211

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Addresses and Phone Numbers

DEP Boston One Winter Street Boston, MA 02108 Telephone: (617) 292-5500 Fax: (617) 556-1049 TDD: (617) 574-6868

William X. Wall Experiment Station 37 Shattuck Street Lawrence, MA 01843 Fax: (978) 688-0352 Division of Environmental Analysis Telephone: (978) 682-5237 Air Quality Survéillance

Telephone: (978) 975-1138

Gill

Office of Watershed Management 627 Main Street Worcester, MA 01608 Telephone: (508) 792-7470 Fax: (508) 839-3469

Millbury Training Center Route 20 Millbury, MA 01527 Telephone: (508) 368-5600 Fax: (508) 755-9253 Residuals Sludge Management Telephone: (508) 368-5606 WWT Operator Certification Telephone: (508) 368-5698

DEP Western Region 436 Dwight Street Suite 402 Springfield, MA 01103 Phone: (413) 784-1100 Fax: (413) 784-1149



Adams Agawam Alford Amherst Ashfield Becket Belchertown Bernardston Blandford Brimfield Buckland Charlemont Cheshire Chester Chesterfield Chicopee Clarksburg

Colrain Hampden Conway Hancock Cumminaton Hatfield Hawley Dalton Deerfield Heath Easthampton Hinsdale East Longmeadow Holland Egremont Holvoke Huntington Ervina Florida Lanesborough Lee Goshen Lenox Granby Granville Leverett Levden Great Barrington Longmeadow Greenfield Ludlow Middlefield

Monroe Montague Monterey Montgomery Monson Mount Washington New Ashford New Marlborough New Salem North Adams Northampton Northfield Orange Otis Palmer Pelham

Pittsfield Plainfield Richmond Rowe Russell Sandisfield Savoy Sheffield Shelburne Shutesbury Southampton South Hadley Southwick Springfield Stockbridge Sunderland

Wales Ware Warwick Washington Wendell Westfield Westhampton West Springfield West Stockbridge Whately Wilbraham Williamsburg Williamstown Windsor Worthington

Tyringham

DEP Central Region 627 Main Street Worcester, MA 01608 Phone: (508) 792-7650 Fax: (508) 792-7621 TDD: (508) 767-2788



Acton Ashburnham Ashby Athol Auburn Ayer Barre Bellingham Berlin Blackstone Bolton Boxborough Boviston Brookfield

Charlton Clinton Douglas Dudley Dunstable East Brookfield Fitchburg Gardner Grafton Groton Harvard Hardwick Holden Hopedale

Hopkinton Hubbardston Hudson Holliston Lancaster Leicester Leominster Littleton Lunenburg Marlborough Maynard Medway Mendon Milford

Millbury Millville New Braintree Northborough Northbridge North Brookfield Oakham Oxford Paxton Pepperell Petersham Phillipston Princeton Royalston

Rutland Shirley Shrewsbury Southborough Southbridge Spencer Sterling Stow Sturbridge Sutton Templeton Townsend Tvnasb orough

Uxbridge Warren Webster Westborough West Boylston West Brookfield Westford Westminster Winchendon Worcester

DEP Southeast Region 20 Riverside Drive Lakeville, MA 02347 Phone: (508) 946-2700 Fax: (508) 947-6557 TDD: (508) 946-2795



Abington Acushnet Attleboro Avon Barnstable Berkley Bourne Brewster Bridgewater Brockton Chatham Chilmark

Dartmouth Dennis Dighton Duxbury Eastham East Bridgewater Easton Edgartown Fairhaven Fall River Falmouth Foxborough Franklin

Freetown Gay Head Gosnold Halifax Hanover Hanson Harwich Kingston Lakeville Mansfield Marion Marshfield Mashpee

Mattapoisett Middleborough Nantucket New Bedford North Attleborough Norton Norwell Oak Bluffs Orleans Pembroke Plainville Plymouth Plympton

Provincetown Ravnham Rehoboth Rochester Rockland Sandwich Scituate Seekonk Sharon Somerset Stoughton Swansea Taunton

Tisbury Truro Wareham Wellfleet West Bridgewater Westport West Tisbury Whitman Wrentham Yarmouth

DEP Northeast Region 1 Winter Street Boston, MA 02108 Phone: (617) 654-6500 Fax: (617) 556-1049 TDD: (617) 574-6868



Amesbury Andover Arlington Ashland Bedford Belmont Beverly Billerica **Boston Boxford** Braintree Brookline Burlington Cambridge Canton

Carlisle

Chelsea Cohasset Concord Danvers Dedham Dover Dracut Essex Everett Framingham Georgetown Gloucester Groveland Hamilton Haverhill

Chelmsford

Hingham Holbrook Ipswich Lawrence Lexington Lincoln Lowell Lynn Lynnfield Malden Manchester-By-The-Sea Marblehead Medfield

Medford

Melrose

Methuen Middleton Millis Milton Nahant Natick Needham Newbury Newburyport Newton Norfolk North Andover North Reading Norwood Peabody

Merrimac

Quincy Randolph Reading Revere Rockport Rowley Salem Salisbury Saugus Sherborn Somerville Stoneham Sudbury Swampscott Tewksbury Topsfield

Wakefield Walpole Waltham Watertown Wavland Wellesley Wenham West Newbury Weston Westwood Weymouth Wilmington Winchester Winthrop Woburn



Massachusetts Department of Environmental Protection Bureau of Resource Protection – Water Supply **BRP WS 34 Chemical Addition Retrofit Application for Approval for Treatment of Public Water** Supply Systems That Serve Less Than or Equal to 3,300 People

Transmittal Number #	

Facility ID (if known)

Important: When filling out forms on the computer, use only the tab key





Name of Applicant – Board of Water Commissioners or sir	nilar body	
Name of Applicant Deare of Water Commissioners of on	mar 50dy	
PWS I.D. #		
City/Town		
Total population served by systems (estimate if necessary		
Other City, Tow n, District, Institution or Area served		
PWS I.D. #		
, .U. #		
Treatment Information		
Sources of Water supply to be treated:		
oddices of water supply to be treated.		
	_ _	
	II	
ii	iv	
Treatment Type (See list A on next page):		
rreatment Type (See list A of flext page).		
	_	
Transfer and Dranger (and liet D on rout name).	_	
Treatment Process (see list B on next page):	_	
	Code Number	
Treatment Type	Code Number	
	Code Number	
Treatment Type	Code Number	
Treatment Type	Code Number	
Treatment Type	Code Number	

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People

1. Design Engineer:

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Water Supply BRP WS 34 Chemical Addition Retrofit Application for Approval for Treatment of Public Water Supply Systems That Serve Less Than or Equal to 3,300

Transmittal Number #

Facility ID (if known)

B. Treatment Information (cont.)

List A – Treatment Type	List B – Treatment Process and Code Numbers								
Disinfection By-Product Control	100 Activated Alumina	403 Gas	403 Gas.Chbriration - Pre			600 Rapid Mix			
Corrosion Control	121 Activated Carbon (Granular)	421 Hyp	421 Hypochbrination - Post 423 Hypochlorination - Pre 443 Inhibitor - Bimetalic Phosphate		620 Reducing Agents				
Disinfection Dechloriration	125 Activated Carbon(Powder)	423 Нур				623 Reducing Agents – Sodium B sulfate 625 Reducing Agents – Sodium Sulfite			
Iron Removal	180 Algae Control								
Inorganic Removal	180 Bone Char	443 Inhi Hexame	bitor – etaphospha	ate		627 Reducing Agents – Sulfer Dioxide			
Fluoridation	200 Chloramines	447 Inhi Ortopho			660 Re	660 Reverse Osmosis			
Manganese Removal	220 Chlorine Dioxide	447 Inhi Polypho			680 Se	680 Sedmentation			
Organic Removal	240 Coagulation 449 Inhibitor – Silicate		680 Sequestraton						
Particulate Removal	300 Distillation	ation 460 Ion Exchange				700 Sludge Treatment 720 Ultraviolet Radiation			
Radionuclides Removal	onuclides Removal 320 Electrodialysis		500 Lime - Soda Ash Addition						
Softening	360 Flocculation	520 Microscreening		740 pH Adjustment					
Taste/Odor Control	380 Fluoridation	560 Per	560 Permaganate		741 pH Adjustment - Post				
	401 Gas. Chlorination - Post	580 Per	oxide		742 pH Adjustment - Pre				
. Feed Points									
Feed Point(s)	Type of Feed Equipment	Flow R (GPM)	Flow Rate Water (GPM) Pressur		Feeder re Capacity				
		Max.	Min.	Max.	Min.	Max.	Min.		
		<u> </u>							
		· <u></u>							
. Designer									

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2. Massachusetts Registration Number:



Massachusetts Department of Environmental Protection Bureau of Resource Protection – Water Supply BRP WS 34 Chemical Addition Retrofit Application for Approval for Treatment of Public Water Supply Systems That Serve Less Than or Equal to 3,300 People

Transmittal Number #	
Facility ID (if known)	

E	. Certificate		
	The undersigned certify that the treatment facility will be operated under the supervision of	Name	
	the person named in Section F (or designated alternate) who will be in responsible charge of	Title	
	the operation, will comply with instructions and requirements of the Department of	Signature	
	Environmental Protection, including those		
	pertaining to maintenance of equipment, records and reports, performance of routine tests and submission of routine samples.	Date	
	It is understood that any change of assignment in Sections F or G must be reported promptly in writing to the Department of Environmental Protection		
F.	. Employee in Responsible Charge	of Treatmen	t Facility
	Name	Title	
	Certified Operator License Number	Grade	
	Signature	Date	
	Office Address		
	City/Town	State	Zip Code
	Home Address		
	City/Town	State	Zip Code

Home Telephone Number

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Office Telephone Number



Massachusetts Department of Environmental Protection Bureau of Resource Protection – Water Supply BRP WS 34 Chemical Addition Retrofit Application for Approval for Treatment of Public Water Supply Systems That Serve Less Than or Equal to 3,300 People

Transmittal Number #
Facility ID (if known)

Name	Title	
Certified Operator License Number	Grade	
Signature	Date	
Office Address		
City/Town	State	Zip Code
Home Address		
City/Town	State	Zip Code
Office Telephone Number	Home Telephone N	Number



Massachusetts Department of Environmental Protection Bureau of Resource Protection – Drinking Water Program

BRP WS Application For Water Supply Permits or Approvals

	 		_

Transmittal Number

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





For water Supply Permits or Approvals				Facility ID# (if known)			
A. 1. 2.	Application Is this application for an Applicant:	n	a □ Resubmit	tal?			
	Name			Address			
	City	State	Zip	Contact	Telephone		
3.	Consultant:						
	Name			Address			
	City	State	Zip	Contact	Telephone		
<u>—</u> В.	Permit						
Please check which permit or approval you are applying for: Underground Injection Control BRP WS 06 Underground Injection Control Registration Zone II Determination for Existing Sources BRP WS 07 Approval to Conduct Pump Test for Zone II Delineation BRP WS 08 Approval of Zone II Delineation Cross Connection BRP WS 09 Plan Approval New Technology BRP WS 11 Minor New Technology Approval; where no field test required Drinking Water Additive Cross Connection Device Water Vending Machine Other(specify): BRP WS 27 New Technology Approval: where field testing is required BRP WS 27 New Technology with Third-party Approval BRP WS 28 Vending Site/Source Prototype BRP WS 30 Vending Site Approval BRP WS 31 Vending and POU/POE Devices with Third-party Approval BRP WS 31 Vending and POU/POE Devices with Third-party Approval C. Certification "I certify, under penalty of law, that this application and all attachments were prepared under my supervision, in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted in this application, the information submitted is, to the best of my			registration for Zone II I; where no I: where field y Approval	Survey and Ap BRP WS 15 Pt Construct Sour New Source Approvals >70 BRP WS 17 Ex Survey BRP WS 18 To BRP WS 19 Pt BRP WS 20 To Water Treatment Approval BRP WS 21 To BRP WS 21 To BRP WS 22 To BRP WS 23 To BRP WS 24 To BRP WS 25 Tr BRP WS 25 Tr BRP WS 25 Tr BRP WS 25 Tr BRP WS 37 To BRP WS 38 To BRP WS 39 W Water Systems BRP WS 30 Di BRP WS 36 At Distribution System Modific BRP WS 32 Sy	coloratory Phase, Site Examination, Land Use proval to Conduct Pumping Test amping Test Report Approval and Approval to oce. O gpm coloratory Phase, Site Examination & Land Use of Conduct Pumping Test Examination & Land Use of Conduct Pumping Test Examination & Land Use of Construct Source of Construct Source of Construct Pilot Study lot Study Report of Construct Facility <1 mgd eatment Facility Modification after Treatment: Chemical Addition Retrofits of S > 3,300 people of S < 3		
			vision, in re that qualified he information n or persons lirectly omitted in this	Print Name Authorized Signate Position/Title	ure		

Date